

Coded by Q 11/98  
Checked by JR 07-09-99  
Entered by JRK  
Date 6/99

U.S. GEOLOGICAL SURVEY  
WATER RESOURCES DIVISION  
MISSISSIPPI DISTRICT

E-Log No. 67 Well No. D71  
County Desoto  
Agency

Olive Branch Quad

WELL RECORD

Agency Code U S G S Site ID 1=345804099463801 Project No. 5=

Station Name D071 OLIVE BRANCH Latitude 9=345904

Longitude 10=0894638 Lat/Long AC. 11=S Lat/Long Hct. 35=G Lat/Long Datum 36=NAD27 Dist Code 6=28 State Code 7=28 County Code 8=033

S=GPS, F=+5 sec, T=+10 sec, M=+1 min, b=+1 min

Land Net Location 13=SENESES25T01SR06W Meridian I=Chickasaw, O=Choctaw, H=Huntsville, S=St. Stephens, W=Washington

Location Map 14=OLIVE BRANCH Altitude 16=392. Accuracy 18=5 Method Meas. 17=M  
A=Altimeter, L=Surveying  
M=TopoMap, b=Unknown

Altitude Datum 22=NGVD29 Hydrologic Unit 20=09030204 Topo Set. 19= Agency Use 803=A I 0 Date Inventoried 711=

Station Type 802= Data Type 804=A I 0 Gr. Time 813=-06 Loc. Time 814=Y Web-R 32= Reliability 3=C L M U Date of Construction 21=0-22-1998

Well Use 23=W Water Use 24=P Primary Aquifer 714=124SPRT Hole Depth 27=500. Well Depth 28=408.

CONSTRUCTION DATA Construction Date 60=04-12-1999 Contractor 63=021 Name Herndon Method 65=H Finish 66=6

CONSTRUCTION CASING DATA

R=76	T=A	725#1	59#1	77=	0.	78=	317.	79=	20.
				Top/Casing	Bottom/Casing	Diameter			
R=76	T=A	725#2	59#1	77=	276.	78=	317.	79=	12.
				Top/Casing	Bottom/Casing	Diameter			

CONSTRUCTION OPENINGS DATA

R=82	T=A	726#1	59#1	83=	317.	84=	408.	87=	12.	85=S	89=	88=	030.
				Top/Depth	Bottom/Depth	Diameter	Type	Length	Width				
R=82	T=A	726#2	59#1	83=		84=		87=		85=	89=	88=	
				Top/Depth	Bottom/Depth	Diameter	Type	Length	Width				

CONSTRUCTION LIFT DATA

R=42 T=A 254#1 Lift Type 43=T Date 38=04-12-1999 Intake 44=260

Power 45=E H.P. 46=150. Serial No. 49=

MISCELLANEOUS OWNERS DATA

R=158 T=A 718#1 Date of Ownership 159=04-12-1999

Owner Name 161=OLIVE BRANCH

MISCELLANEOUS OTHER ID DATA

R=189 T=A 736#1 E-Log No. 190=067 Assigner 191=M I S S D I S T

MISCELLANEOUS LOGS DATA

R=198	T=A	739#1	199=D	200=	0.	201=	496.
		Log Type	Beg. Depth	End Depth			
R=198	T=A	739#2	199=E	200=	30.	201=	500.
		Log Type	Beg. Depth	End Depth			

MISCELLANEOUS NETWORK DATA 706=QW,WL,WD\*

R=114	T=A	730#1	Beg. Year	115=	End Year	116=	Agency Source	120=A	117=	Freq.	118=
R=121	T=A	730#2	Beg. Year	115=	End Year	116=	Agency Source	117=	118=	Freq.	118=

MISCELLANEOUS REMARKS DATA

R=183	T=A	311#1	Date of Remarks	184=	Remarks	185=
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DISCHARGE DATA

R=146	T=A	Pump/Flow	147#1	Date	148=	Type	703=	Discharge	150=
Meth. Dis.	Static Water Level	Source WL	Sp. Capacity	152=	154=	155=	272=	1580	

GEOHYDROLOGIC DATA

R=90	T=A	721#1	Depth Top	91=	Depth Bottom	92=	Unit ID	93=	304=P
							1245PRT		

HYDRAULIC DATA

R=98	T=A	790#1	Unit Tested	100=	103=
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HISTORICAL WATER LEVEL DATA

R=234	T=A	235#	Date	237=	Water Level	243=L	244=D
			04-12-1999	127.			

104' dd @ 1580 (2 hrs) (Polk Lane Well)

DESCRIPTION OF FORMATIONS ENCOUNTERED	FROM	TO	FORMATIONS (Continued)	FROM	TO
Red Dirt	0	5	Coarse Sand, Small gravel.		
Gravel, Coarse Red Sand	5	15	White & Gray Clay	370	490
Gray & White Clay	15	20	Gray Clay	490	496
Coarse Red Sand	20	40			
WHITE & GRAY CLAY, Gravel	40	60			
Soft, Sandy Gray & White Clay, Lignite	60	210			
Coarse, Quartz Sand	210	315			
Coarse Quartz Sand, White Clay	315	370			

RECEIVED

JUN 21 1999

IF MORE SPACE IS NEEDED, USE BACK

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY  
Bureau of Land and Water Resources

P. O. Box 10631  
Jackson, MS 39289-0631  
WATER WELL DRILLERS LOG

COUNTY WELL LOCATED <b>DESOTO</b>	
WELL NUMBER <b>POLK LANE</b>	CODED <input checked="" type="checkbox"/>
<b>D 71</b>	
DATE WELL COMPLETED <b>04/12/99</b>	

PERMIT NUMBER
NAME OF DRILLING FIRM <b>HERNDON WELL &amp; SUPPLY</b>
<b>SHANNON, MS</b>

NAME & MAILING ADDRESS OF LANDOWNER			
<b>CITY OF OLIVE BRANCH</b>			
<b>9189 PIGEON ROOST</b>			
<b>OLIVE BRANCH, MS 38654</b>			
WELL LOCATION:	SEC	TOWNSHIP	RANGE
	<b>25</b>	<b>1</b>	<b>6</b>
		<b>S</b>	<b>E</b>
		<b>W</b>	
DISTANCE	DIRECTION	NEAREST TOWN	
<b>INSIDE CITY LIMITS</b>			
Miles of			
OTHER LANDMARK			
WELL PURPOSE: Home, Irrigation, Municipal, Industrial, Fish Pond, etc.			
<b>MUNICIPAL</b>			

PUMP DATA			
PUMP TYPE (Circle One): Submersible, <b>Turbine</b> , Jet, Flowing Well, Other (Describe)			
POWER TYPE (Circle One): <b>Electric</b> , Tractor, Diesel, Gasoline, Butane, Other (Describe) <b>H/P 150</b>			
Pump Capacity (GPM)	No. of Stages	Setting Depth	
<b>1500</b>	<b>5</b>	<b>260 FT.</b>	
PUMP TEST			
Well yielded <b>1580</b> GPM with a drawdown of <b>104'</b> ft. after <b>2</b> hours of pumping			

WELL DATA		
Well Depth <b>408</b>	Casing Diameter (In.) <b>20</b>	Casing Length (Ft.) <b>317</b>
Type of Casing <b>steel</b>	Hole Depth <b>496</b>	Depth to Static Water Level <b>121'</b>
TYPE OF COMPLETION: (Circle One or More): <b>Gravel Packed</b> , Underreamed, Telescoped, Natural Development, Open Hole, Other (Describe)		
Top of Lap Pipe or Reduction in Casing		
<b>276 FEET</b>	IF TELESCOPED OR MORE THAN ONE SCREEN: USE BACK PAGE	

LOG DATA	
TYPE OF LOG RUN (Circle One): <b>Electric</b> , Gamma Ray, Density, Sonic, Neutron, Other (Describe)	
Name of Organization Running Log <b>MS OFFICE OF GEOLOGY</b>	

SCREEN DATA		
Diameter - Inches <b>12</b>	Length - Feet <b>91</b>	Slot Size - Inches <b>.030</b>
Screen Type <b>SS RIBBED</b>	Depth to Bottom - Feet <b>408</b>	

GEOLOGIC DATA (Office Use Only)			
Surface Elev.	Geologic Unit	Unit Thickness	Depth to Top
Subs. SWL	Date	Analysis	Aquifer Test
Driller's Remarks			

DESCRIPTION OF FORMATIONS ENCOUNTERED	FROM	TO	FORMATIONS (Continued)	FROM	TO
Red Dirt	0	5	Coarse Sand, Small gravel,		
Gravel, Coarse Red Sand	5	15	White & Gray Clay	370	490
Gray & White Clay	15	20	Gray Clay	490	496
Coarse Red Sand	20	40			
WHITE & GRAY CLAY, Gravel	40	60			
Soft, Sandy Gray & White Clay, Lignite	60	210			
Coarse, Quartz Sand	210	315			
Coarse Quartz Sand, White Clay	315	370			

**RECEIVED**  
**JUN 2, 1999**

Dept of Environmental Quality  
Office of Land & Water Resources

"TEP" request RECEIVED

SEP 08 1998

For Office Use Only:	
County:	
Priority Date:	
Permit No:	GW-15352
Quad Map:	Olive Branch
Water Management Dist:	
Hydrologic River Basin:	

Dept of Environmental Quality  
Office of Land & Water Resources

APPLICATION FOR PERMIT TO DIVERT OR WITHDRAW  
FOR THE BENEFICIAL USE THE PUBLIC WATERS OF THE STATE OF MISSISSIPPI

Pursuant to the laws of the State of Mississippi, namely §51-3-5 (1), as amended, I, the landowner, \_\_\_\_\_

CITY OF OLIVE BRANCH 64-6001544  
 (Name) (S/S or Tax ID No.)  
9189 PIGEON ROOST ROAD OLIVE BRANCH MS-38654-2499  
 (Address) (City or Town) (State and Zip)  
 (601) 895-3166 do hereby make application for permission to use: (circle one)

surface water ground water for the following beneficial use: (circle one or more)

municipal; irrigation; recreation; livestock water; fish culture; industrial;  
 Other Drained: 10-13-98 Expires: 10-13-2008  
 (Specify)

1. Name & Address of agent or applicant if different from landowner.

SAME  
 (Name) (S/S or Tax ID No.) (Address)  
 (City or Town) (State and Zip) (Telephone Number)

2. Location of point of diversion/withdrawal (include location map with application)

NE 1/4 of SE 1/4 of Section 25, Township 1S, Range 6W, County DESOTO

3. Volume of water diverted/withdrawn:

(1) \_\_\_\_\_ acre feet per year diverted/withdrawn at a maximum rate of \_\_\_\_\_ gallons per minute; or  
 (2) ONE .05 million gallons per day, diverted/withdrawn at a maximum rate of 1500 gallons per minute.

4. Construction of proposed work will begin OCT. 1 19 98

5. Estimated date of completion JUNE 1 19 99

6. Water will be used from JAN to DEC each year  
(Month) (Month)

7. Description of lands on which water will be used:

(a) Copy legal description of property upon which water is to be used (may be copied word for word from your deed).

Beginning at the northeast corner of Section 25; Township 1 South; Range 6 West;  
 thence south 3526.43 feet along the east line of said section 25 to a point;  
 thence west 80 feet to the point of beginning of the following lot; thence west 210 feet along an existing property  
 line to a point; thence north 150 feet to a point; thence east 210 feet to a point; thence south 150 feet to  
 the point of beginning and containing 0.72 acres more or less. Tankwater System

(b) Has the above described land any water right or source of water supply other than that herein applied for?

(Water Rights Number(s) NO) Describe the nature and amount of any additional supply \_\_\_\_\_

JAT: 34-58-03 Elev: 390  
LONG: 89-46-43

SECTION A (to be completed if source of water is from surface supply)

1. Source of supply is \_\_\_\_\_ which drains into \_\_\_\_\_

\_\_\_\_\_ which drains into \_\_\_\_\_

2. Description of diversion works:

(a) Water obtained directly from stream: \_\_\_\_\_

(Name)

Pump \_\_\_\_\_ Power Unit \_\_\_\_\_  
(Size and type) (Size and type)

Lift \_\_\_\_\_ ft. Maximum capacity \_\_\_\_\_ gpm

(b) Storage reservoir \_\_\_\_\_

(Name)

Height of dam \_\_\_\_\_ feet. Surface area at normal pool \_\_\_\_\_ acres

Storage capacity at normal pool \_\_\_\_\_ acre feet

**SECTION B** (to be completed if source of water is from underground supply).

1. Source of supply: Wilcox - Memphis Aquifer SPRT aquifer(s)
2. Description of water well:
- (a) Proposed Well Data:  
 Estimated depth to be drilled 500 408 feet.
- (b) Proposed Screen Data:  
 (1) Estimated Length 90 91 ft. (2) Estimated Diameter 12 inches.  
 (3) Proposed Type 304 STAINLESS STEEL Ribbed Proposed slot size 7/8" Designed inches. 030
- (c) Proposed Casing Data:  
 (1) Estimated Length 376 317 ft. (2) Estimated Diameter 20 inches  
 (3) Proposed Type STEEL
- (d) Proposed Pump Data:  
 (1) Estimated Type & Size Vertical Turbine 150HP (2) Estimated Capacity 1500 gpm  
 (3) Estimated No. of Stages 5 (4) Estimated Setting Depth 200 ft.  
 Well Driller HERNOON Well Co.  
 (Name of Company)

**WATER USE DATA**

1. IRRIGATION use: (a) Show number of acres to be irrigated by 40-acre blocks:

TOWN-SHIP	RANGE	SEC.	NE¼				NW¼				SW¼				SE¼				TOTALS		
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼			

- (b) List the acres to be irrigated: Rice \_\_\_\_\_; Cotton \_\_\_\_\_; Corn \_\_\_\_\_; Pasture \_\_\_\_\_; Truck \_\_\_\_\_; Other crops ( \_\_\_\_\_ ) \_\_\_\_\_ acres.
2. If for MUNICIPAL use: (a) Present population 16,000 (based on 19 98 Census)  
 (b) Estimated average daily consumption during periods of maximum use at the end of each five-year period in next twenty years:  
3,000,000 19 99 ; 4,200,000 20 05 ; 6,000,000 20 10 ; 8,000,000 20 15
3. If for INDUSTRIAL use: (a) If water is to be released into a watercourse, indicate: Amount released each year \_\_\_\_\_; rate of release \_\_\_\_\_; location of release point in reference to diversion point \_\_\_\_\_ (show location on map)  
 (b) Explain any change in quality of water to be released: \_\_\_\_\_
4. If for RECREATIONAL use: Explain how water will be used \_\_\_\_\_
5. If for FISH CULTURE use: (a) Explain in detail how water will be used \_\_\_\_\_  
 (b) Number of times reservoir will be emptied and filled annually: \_\_\_\_\_
6. If for ANY OTHER use: (a) Explain in detail \_\_\_\_\_

REMARKS \_\_\_\_\_

\_\_\_\_\_

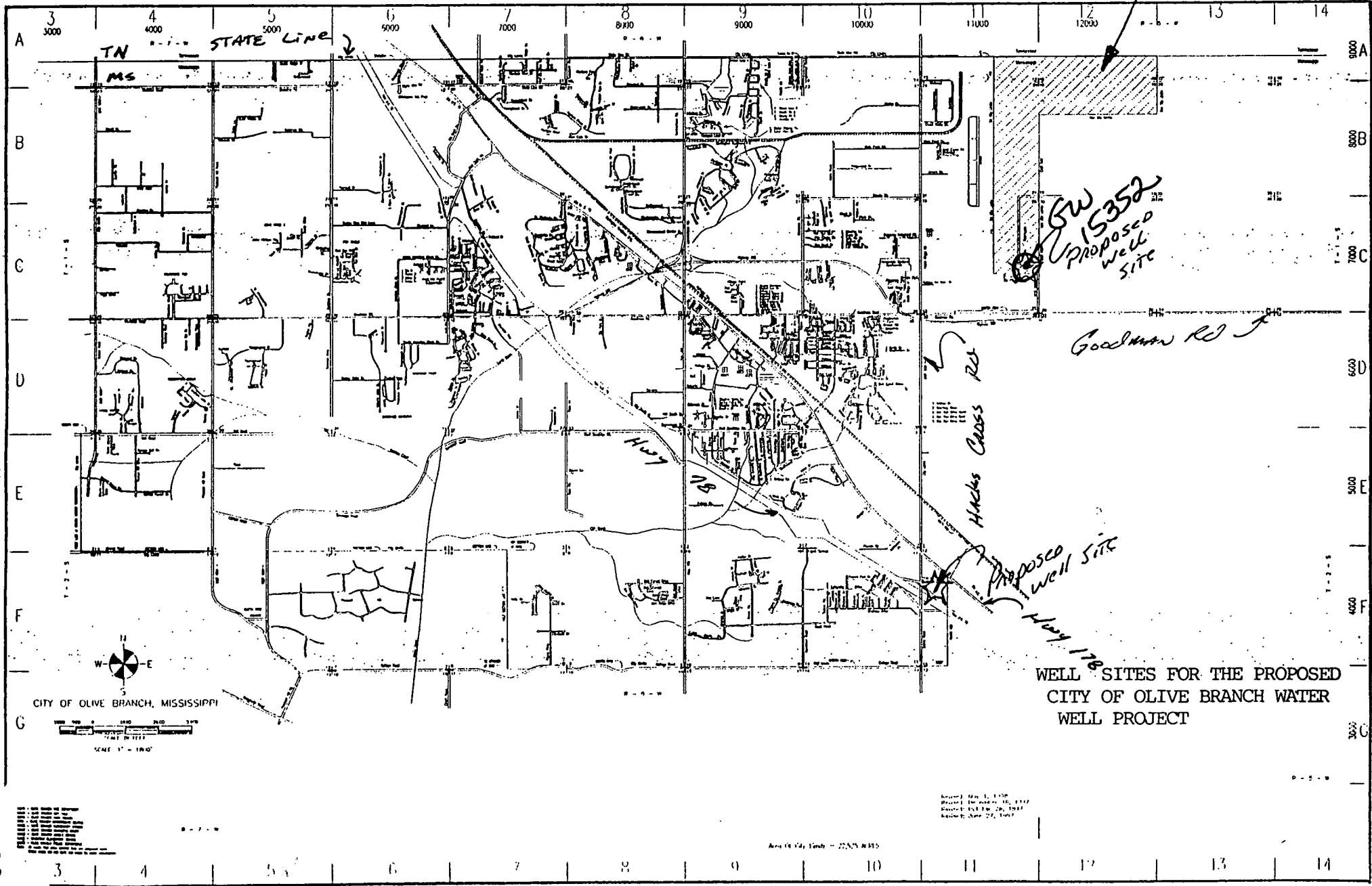
\_\_\_\_\_

List below the name and address of person to be contacted for additional information, if required. The accompanying map is hereby declared a part of this application. Ten dollar (\$10.00) fee herewith enclosed.

Joseph F. LAUDCROFT 895-0422  
 (Name)  
9123 PIGEON ROOST  
 (Address)  
OLIVE BLANCH, MS. 38654  
 (Signature)

Subscribed and sworn to before me this 1<sup>st</sup> day of Sept 19, 98, at OLIVE BLANCH  
 County of DESO Mississippi. My commission expires MY COMMISSION EXPIRES MAY 28, 2006  
 (Signature)

PROPOSED NEW ANNEXATION AREA  
CITY OF OLIVE BRANCH



WELL SITES FOR THE PROPOSED  
CITY OF OLIVE BRANCH WATER  
WELL PROJECT

Approved: May 1, 1978  
Referred for study: May 15, 1977  
Referred: May 26, 1977  
Referred: June 27, 1977

Area 18 City 11mb - 27525 W 835